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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/915,122	07/25/2001	Kevin Kwong-Tai Chung	AI-TECH-23	5758

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EXAMINER

TRAN, KHOA H

ART UNIT PAPER NUMBER

3634

DATE MAILED: 12/30/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/915,122

Applicant(s)

CHUNG, KEVIN KWONG-TAI

Examiner

Khoa Tran

Art Unit

3634

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 06 October 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-36 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 36 is/are allowed.
- 6) ☒ Claim(s) 1-35 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. §§ 119 and 120

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
* See the attached detailed Office action for a list of the certified copies not received.
- 13) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.
a) ☐ The translation of the foreign language provisional application has been received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413) Paper No(s). _____
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) ☐ Notice of Informal Patent Application (PTO-152)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____ 6) ☐ Other: _____

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-35 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. With respect to claims 1, 10, 20, 30, and 35, the recitation of "may be" is improper because it's unclear whether or not the limitation follows after the word "may be" is being required.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-35 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kreckel et al. in view Delgado et al. and Plamthottam et al. ('191) and Wehr. Kreckel et al. disclose a reusable carrier structure comprising a substrate carrier base/article (14) having adhesives (12) laminate disposed on a surface of the carrier base (14). The laminate adhesive comprises a transparent adhesive base (24), a first adhesive layer (22) disposed on a first surface of the adhesive base, see Figure 1, for removably connecting the carrier base (14) and the adhesive base (24) and a second adhesive layer (26) disposed on a second surface of the adhesive base (24) for providing a tacky

carrier surface. The lower adhesive layer (12) to the substrate carrier has a different release adhesion than the top adhesive layer (16), wherein the top adhesive layer has an opaque cover material (34). See column 10, lines 18-21. Kreckel et al. do not teach the composition of the adhesive layer and how they are formed. However, Delgado et al. teach the composition of an adhesive layer that cross-linkable by heat or radiation, see column 7, lines 13-14. and the composition of the adhesive is decreased adhesive transfer for increased peel adhesion, see column 10, lines 56-28. It would have been obvious to one of ordinary skill in the art at the time of the invention was made to provide the reusable adhesive layer of Kreckel et al. with the provision of adhesive layer as taught by Delgado et al. in order to decrease adhesive transfer for increased peel adhesion during the phase of separation. Plamthottam et al. ('191) teach heat or radiation curing of cross-linking adhesive between high shear adhesion failure temperature and good peel adhesion temperature. It would have been obvious to one of ordinary skill in the art at the time of the invention was made to provide the modified adhesive layer of Kreckel in view of Delgado et al. with the process of heat or radiation curing as taught by Plamthottam et al. ('191) in order to determine the good peel adhesion test that can be used for structural bonding. Wehr teaches a reusable adhesive layer containing ethylene vinyl acetate copolymer. It would have been obvious to one of ordinary skill in the art to provide the modified adhesive layer of Kreckel in view of Delgado et al. and Plamthottam et al. ('191) with the provision of ethylene vinyl acetate copolymer in order to have the adhesive that is reusable. With respect to claims 6-8, 15-17, and 25-27, it would have been an obvious matter of

engineering design choice as determined through routine experimentation and optimization for one of ordinary skill in the art to routinely dimension the percentage of the adhesive strength lost to be 70% after the cross-linking process, i.e., exposed to heat or radiation, and to routinely dimension the resistance to deformation that is less than 300 degree Celsius as taught by Plamthottam et al ('191) for a particular application thus producing no new and unexpected results.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Lake et al., and Dressler are cited to show a reusable adhesive layer.

Allowable Subject Matter

Claim 36 is allowed over the prior art of record because none of the prior art of record teaches or suggests the carrier structure includes a rectangular frame having a ledge providing the support member, and wherein the cover includes first and second covers disposed on opposite ends of the rectangular frame, wherein the first and second covers and the rectangular frame enclose the carrier base.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Khoa Tran whose telephone number is (703) 306-3437.

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The examiner can normally be reached on Monday through Thursday from 9:30 A.M. to 7:00 P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Daniel P. Stodola, can be reached on (703) 308-2686. The fax phone number for this Group before a final Office action is (703) 872-9326 and after a final Office action is (703) 872-9327.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-2168.

Khoa Tran
December 13, 2003



Alvin Chin-Shue
Primary Examiner